

AMENDMENTS TO THE CLAIMS

Please amend the claims as shown below. No new matter is introduced by these amendments

1. (Previously Presented) A method for displaying a plurality of measurement data along a borehole trajectory, comprising: displaying a borehole model representing the borehole trajectory; and displaying the plurality of measurement data as a plurality of layers overlaying the borehole model, wherein the plurality of measurement data are displayed at measurement depths corresponding to measurement depths of the borehole model.
2. (Original) The method of claim 1, wherein the borehole model has a diameter related to a borehole diameter determined with a tool.
3. (Original) The method of claim 2, further comprising mapping measurement data on a surface of the borehole model.
4. (Previously Presented) The method of claim 1, wherein the plurality of layers comprises at least two layers displayed with different diameters.
5. (Original) The method of claim 4, wherein the different diameters represent different depths of investigation.
6. (Previously Presented) The method of claim 1, wherein the plurality of layers is displayed in different transparency.
7. (Original) The method of claim 6, wherein the different transparency is set according to a selected function.
8. (Original) The method of claim 7, wherein the selected function is dependent on measurement values in the plurality of measurement data.
9. (Original) The method of claim 1, further comprising displaying a measurement value associated with a cursor location.

10. (Original) The method of claim 9, wherein the cursor location is user selected.
11. (Original) The method of claim 1, wherein the plurality of measurement data comprise well logging data.
12. (Original) The method of claim 11, wherein the well logging data comprise at least one selected from the group consisting of resistivity data, neutron measurement data, gamma ray measurement data, nuclear magnetic resonance data, and acoustic measurement data.
13. (Currently amended) The method of claim 1, further comprising selectively displaying a portion of the borehole model and the plurality of layers by removing an angular section of the borehole model and the ~~at least one~~ plurality of layers.
14. (Original) The method of claim 13, wherein the angular section is reference to a user coordinate.
15. (Previously Presented) The method of claim 1, wherein the borehole model and the plurality of layers are displayed in a cross-section view.
16. (Original) The method of claim 1, further comprising displaying a plane intercepting the borehole model.
17. (Previously Presented) The method of claim 16, wherein the plane is a dip plane.
18. (Previously Presented) The method of claim 16, further comprising adjusting the plane to fit a pattern of measurement values displayed on the plurality of layers.
19. (Previously Presented) A system for displaying a plurality of measurement data along a borehole trajectory, comprising: a display; a computer operatively coupled to the display, the computer having a program to display a borehole model representing the borehole trajectory on the display, the program comprising instructions to enable: displaying the plurality of measurement data as a plurality of layers overlaying the borehole model, wherein the plurality of measurement data are displayed at measurement depths corresponding to measurement depths of the borehole model.

20. (Original) The system of claim 19, wherein the borehole model has a diameter related to a borehole diameter determined with a tool.
21. (Original) The system of claim 20, the program further comprising instructions to enable mapping measurement data on a surface of the borehole model.
22. (Previously Presented) The system of claim 19, wherein the plurality of layers comprises at least two layers displayed with different diameters.
23. (Original) The system of claim 22, wherein the different diameters represent different depths of investigation.
24. (Previously Presented) The system of claim 19, wherein the plurality of layers is displayed in different transparency.
25. (Original) The system of claim 24, wherein the different transparency is set according to a selected function.
26. (Original) The system of claim 25, wherein the selected function is dependent on measurement values in the plurality of measurement data.
27. (Original) The system of claim 19, wherein the program further comprising instructions to enable displaying a measurement value associated with a cursor location.
28. (Original) The system of claim 27, wherein the cursor location is user selected.
29. (Original) The system of claim 19, wherein the plurality of measurement data comprise well logging data.
30. (Original) The system of claim 29, wherein the well logging data comprise at least one selected from the group consisting of resistivity data, neutron measurement data, gamma ray measurement data, nuclear magnetic resonance data, and acoustic measurement data.
31. (Currently amended) The system of claim 19, wherein the program further comprising instructions to enable selectively displaying a portion of the borehole model and the plurality

of layers by removing an angular section of the borehole model and the ~~at least one plurality of layers~~.

32. (Original) The system of claim 31, wherein the angular section is reference to a user coordinate.

33. (Previously Presented) The system of claim 19, wherein the borehole model and the plurality of layers are displayed in a cross-section view.

34. (Original) The system of claim 19, wherein the program further comprising instructions to enable displaying a plane intercepting the borehole model.

35. (Original) The system of claim 34, wherein the plane is a dip plane.

36. (Previously Presented) The system of claim 34, wherein the program further comprising instructions to enable adjusting the plane to fit a pattern of measurement values displayed on the plurality of layers.